SIGMACHECK

HAND-HELD EDDY CURRENT CONDUCTIVITY METER

The SigmaCheck is the new conductivity meter from *ETHER NDE*. Housed in a sculpted case that is comfortable to hold and manufactured with a flexible open-faced removable silicon rubber boot, the SigmaCheck is designed to be fully hand-held. Made to be operated along with an ergonomically designed probe, the SigmaCheck offers the user the very best in design as well as usability, technology and cost effectiveness.

The SigmaCheck comes in a moulded UL94-5VA flame retardant ABS case with a dual calibration block, probe cable, charger, USB lead, removable desk stand and user manual. Other probes are available for the SigmaCheck. Additionally a belt strap is incorporated into instrument back.

CUSTOMER BENEFITS

- **Large colour display**
- **Ergonomic slim line design**
- **Light-weight**
- **USB connection**
- **USB charging facility**
- **Thermal bridge for stability**
- **Configurable dual-zone display**
- **Lift-off measurement display**
- **Real-time PC control**
- **Excellent data reporting package**
- **Excellent battery life**
- **Two-year warranty**
- **Firmware can be updated and upgraded in the field**
- **Comes with a stand, durable rubber boot and useful belt strap**
- **All data including probe maps stored on removable and transferable micro SD memory card with 2GB of data storage.**
- **Intelligent charger as well as a mains charger**
- **Ergonomic Probe “holder / skirt”**
- **60kHz, 120kHz, 240kHz, 480kHz and 960kHz frequencies available.**
- **Real-time clock therefore all readings maybe stamped.**
- **High-quality “tool-case”**
- **Multiple languages available**
- **Metal Sorting display capability**
- **Lift-Off Bargraph and Traditional Conductivity Meter Displays available**

SPECIFICATION

Inspection Technology	Eddy Current
Operating Frequencies	60 kHz, 120kHz, 240kHz, 480kHz
Display	240 x 320 pixels colour display. LCD with selectable backlight.
Size	163mm Long x 80mm Wide x 25mm Deep
Construction & Storage	High impact, splash proof, moulded UL94-5VA flame retardant ABS case case. Protective rubber boot to hold unit, probes, probe cable, operator manual on USB, and removable stand.
Weight	350g (12 oz) including batteries
Power	2 x 1.5 V AA Alkaline Batteries, Approx upto 6 hrs life.
Conductivity Standards	On top of unit. Removable for value verification, and ensuring thermal equilibrium.
Conductivity Range	0.5 % IACS to 110 % IACS, 0.28-64 MS/m
Resolution	10 to 110 % IACS, reading 10.0 to 110 (upto 3 dec. places)
Lift Off	13 mm probe compensated to 0.020" (0.5mm) 7 mm probe compensated to 0.010" (0.25 mm)
Accuracy	At 20 °C. At 10 % IACS: ±0.1 % IACS. At 100 % IACS: ±0.5 % IAC Over Range 0-40°C: At 10% IACS: ±0.2% IACS. At 100% IACS: ±0.8% IACS Probe in thermal equilibrium with metal.
Temperature Measurement	In-probe sensor (accurate to 0.5 °C) Range 0 °C to +50 °C
Automatic Compensation	Conductivity measurements are corrected to the 20°C value.
Environmental Range	0 to 95% relative humidity, 0°C to +50°C for reliable operation
Data Logger Memory	Removable 2GB micro SD Card allowing over 1 million reading to be stored
Probes	12.7 mm diameter for 60 kHz - 480 kHz. 7 mm probe operates at 480 kHz only. Probes are interchangeable with simple operator resetting procedure. Probes are field exchangable and do not require the return to manufacturer for calibration.
PC Connectivity	USB port for charger and PC communications
Accessories	Settings Reference Blocks - A range of conductivity references standards tracable to US and European standards are available for in-field use. Up to five can be mounted on an aluminium anodised holding plate.

This is a provisional specification. A full brochure to follow in the very near future. E&OE subject to change without notice.

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